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PN - DD 156375 A 19820818
PD - 1982-08-18
PR - DD 19810227632 19810216
OPD - 1981-02-16
IN - DITTRICH KARL-HEINZ; KRYSMANN WALDEMAR; KURZE PETER; BERGER MARIA; MARX
GUENTER
PA - DITTRICH KARL HEINZ; KRYSMANN WALDEMAR; KURZE PETER; BERGER MARIA; MARX
GUENTER
IC - C25D15/00

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TI - Diffused dispersion coating for metals, esp. ferrous metals - where dispersion of magnetic particles is bonded to substrate by anodising followed by diffusion heat treatment
PR - DD 19810227632 19810216
PN - DD 156375 A 19820818 DW 198249 009pp
PA - (KURZ-I) KURZE P
IC - C25D15/00
IN - BERGER M; DITTRICH K H; KRYSMANN W; MARX G
AB - DD- 156375 Aq. dispersion is made contg. less than the amts. stated of one or more of the following substances:- 0.4 mole/l sodium silicate; 0.6 mole/l sodium aluminate; 0.3 mole/l citric acid; 0.1 mole/l sodium gluconate; 0.1 g/l fine ferro- and/or ferri- magnetic particles. A magnetic field is used to coat a metal substrate with the aq. dispersion.
- The coated substrate is next subjected to an anodic treatment using d.c. to form a dense, thick and adherent coating. A conventional heat treatment or spark discharge is then used to diffuse the coating into the substrate. The diffused elements obtd. from the dispersion are pref. B, N, S, C, Si, Cr, Ti, V, Al, Y, Gd, Ho, or other elements.
- A simple process is provided for producing a wear- and/or corrosion- resistant surface on all types of metal parts used in machines, appts., reactors or space travel.
OPD - 1981-02-16
AN - 1982-04695J [49]